



A33795 066031.0138  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Eshel Ben-Jacob et al.  
Serial No. : 09/724,436 Examiner : Marschel, Ardin H.  
Filed : November 28, 2000 Group Art Unit : 1631  
For : A METHOD AND APPARATUS FOR DNA BASED SINGLE  
ELECTRON LOGIC ELEMENTS

INFORMATION DISCLOSURE STATEMENT

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

January 29, 2004

Date of Deposit

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41,328  
PTO Registration No.

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Signature

January 29, 2004  
Date of Signature

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 C.F.R. §1.56, Applicant respectfully requests that the documents relating to the above-identified application listed herein in reverse chronological alphabetical order be considered and made of record in the U.S. Patent and Trademark Office.

1. Patolsky F et al., 2002, "Au-nanoparticle nanowires based on DNA and polylysine templates" *Angew Chem Int Ed Engl.* 41(13): 2323-7;

02/04/2004 BSAYAS11 00000107 09724436

03 FC:1806

180.00 DP

NY02:473597.1

2. Porath D. et al., 2000, "Direct measurement of electrical transport through DNA molecules" *Nature* Vol. 403:635-638;
3. Seeman N.C. , *Trends in Biotechnology*, Vol. 17, (1999), p. 437;
4. Aich et al., *Journal of Molecular Biology*, 294 (2), 1999;
5. Connolly DM, WO99/60165 "Chemically Assembled Nano-Scale Device" published November 25, 1999;
6. "DNA - Nanoelectronics: Realization of a Single Electron Tunneling Transistor and a Quantum bit Element", The Sixth Foresight Conference on Molecular Nanotechnology, November 1998;
7. Ben-Jacob, E., et al. *Europhys. Lett*, Vol. 43, (1998) p. 482;
8. Hermon Z et al., 1997, "Do topological charge solutions participate in DNA activity"; and
9. Ben Jacob et al in 1989 see The charge-effect transistor, M. Amman, K. Mullen, and E. Ben-Jacob, *J. Appl. Phys.* 65(1) 339.

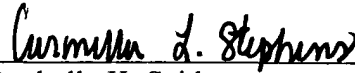
The referenced citations are listed in the accompanying PTO Form 1449. Copies of the documents will follow as soon as they are available. Identification of the documents listed in the attached PTO Form 1449 is not to be construed as an admission of Applicants or Attorneys for Applicants that such documents are available as "prior art" against the above-identified application.

Applicants enclose herewith the fees required pursuant to 37 C.F.R. §§ 1.17(p) and 1.97(c)(2). Applicants do not believe any additional fee is due with this submission. Nevertheless, the Commissioner is hereby authorized to deduct any fees required with this submission not otherwise enclosed herewith from Deposit Account No. 02-4377. Two copies of this paper are enclosed.

Respectfully submitted,

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January 29, 2004



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Form PTO-1449 U.S. Department of Commerce  
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Serial No.  
09/724,436

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant  
Eshel Ben-Jacob et al.

Filing Date  
November 28, 2000

Group  
1631

## U.S. PATENT DOCUMENTS

*Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate

## FOREIGN PATENT DOCUMENT

Document No.	Date	Country	Class	SubClass	Translator Yes No
9 9 6 0 1 6 5	11/25/1999	WIPO (WO)			

## OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)

	Patolsky F et al., 2002, "Au-nanoparticle nanowires based on DNA and polylysine templates" <i>Angew Chem Int Ed Engl.</i> 41(13): 2323-7;
	Porath D. et al., 2000, "Direct measurement of electrical transport through DNA molecules" <i>Nature</i> Vol. 403:635-638
	Seeman N.C. , <i>Trends in Biotechnology</i> , Vol. 17, (1999), p. 437
	Aich et al., <i>Journal of Molecular Biology</i> , 294 (2), 1999
	"DNA – Nanoelectronics: Realization of a Single Electron Tunneling Transistor and a Quantum bit Element", The Sixth Foresight Conference on Molecular Nanotechnology, November 1998
	Ben-Jacob, E., et al. <i>Europhys. Lett</i> , Vol. 43, (1998) p. 482
	Hermon Z et al., 1997, "Do topological charge solutions participate in DNA activity";
	Ben Jacob et al in 1989 see The charge-effect transistor, M. Amman, K. Mullen, and E. Ben- Jacob, <i>J. Appl. Phys.</i> 65(1) 339

NY02:473674.1

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.